

**Type Test Certificate of** Switching and Short-circuit performance

**Apparatus** Three-pole high-voltage vacuum contactor

**Designation** CV-10HB

Rated voltage 12 kV ; Rated normal current 400 A ; Rated frequency 50/60 Hz

**Manufacturer** TOSHIBA CORPORATION  
Fuchu Complex - 1, Toshiba-Cho, Fuchu-Shi, Tokyo, Japan

**Client** TOSHIBA CORPORATION  
72-34, Horikawa-Cho Saiwai-Ku, Kawasaki-Shi, Kanagawa, Japan

**Tested by** CESI S.p.A. - Milan, ITALY

**Tests date** from February 27, 2014 to April 3, 2014

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in the reference documents identified in this Certificate, has been subjected to the series of proving tests in accordance with

**IEC 62271-106 Edition 1.0 (2011-08)**  
Clauses 6.6, 6.102, 6.103 and 6.104

**This Type Test Certificate has been issued by CESI following exclusively the STL Guides.**

The results are shown in the record of Proving Tests and the oscillograms attached in the Test Reports. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the ratings assigned by the Manufacturer as listed on page No. 3.

The Certificate applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designations with that tested rests with the Manufacturer.

Only integral reproduction of this Certificate, or reproductions of this page accompanied by any pages on which are stated the endorsed ratings of the apparatus tested, are permitted without written permission from CESI.

**No. of pages** 4 **No. of pages annexed** -

**Issue date** January 28, 2015

**Prepared** PSV - Beccarini Pierangelo

B5001593 2925 AUT

**Verified** PMV - Magistris Paolo, PSV - Vidori Mauro

B5001593 3845 VER

B5001593 2158654 VER

**Approved** PMI - The Manager - Arcidiaco Lorenzo

B5001593 821814 APP

**CESI** S.p.A.  
Testing & Certification Division  
Testing Operations Area  
"Milan Platform"  
Manager

PAD B5001593 (2049386) - CONFIDENTIAL USE

Mod. RPRO v. 8